EXHIBIT 4 Redacted Version of Document Sought to be Sealed

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1
                 IN THE UNITED STATES DISTRICT COURT
 2
              FOR THE NORTHERN DISTRICT OF CALIFORNIA
 3
                          SAN JOSE DIVISION
 4
                              ---000---
 5
     CHASOM BROWN, et al.,
     on behalf of themselves and )
     all others similarly
6
     situated,
 7
               Plaintiffs,
                                    )Case No.
                                     )5:20-cv-03664-LHK
8
     vs.
9
     GOOGLE LLC,
10
               Defendant.
11
12
13
                              ---000---
14
                    Videotaped Zoom Deposition of
15
                              MANDY LIU
16
                            CONFIDENTIAL
                       Tuesday, March 8, 2022
17
                              ---000---
18
19
20
21
22
23
    Katy E. Schmidt
24
    RPR, RMR, CRR, CSR 13096
    Job No.: 5121622
25
                                                Page 1
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)7:18)7:18
or did someone else come up with the idea?	7:18
3 MR. ANSORGE: Objection. Form. 0	7:18
THE WITNESS: I'm not sure who came up with 0	7:18
5 this idea. 0	7:18
6 BY MR. FRAWLEY: 0	7:18
7 Q. But it wasn't Bert? 0	7:18
8 A. I'm not sure. 0	7:18
9 Q. Now, can you go back a couple of pages to the 0	7:18
page that ends in Bates 925?	7:18
11 A. Yeah. I'm looking at it. 0	7:19
Q. And do you see the entry for February 11th, 0	7:19
13 2020?	7:19
14 A. Yes. 0	7:19
Q. Okay. Now, just go back down two pages to the 0	7:19
Bates ending in 927.	7:19
17 A. Mm-hm. 0	7:19
Q. And now do you see the	7:19
19 bullet at the top? 0	7:19
20 A. Yes. 0	7:19
Q. And then do you see the sub-bullet "Working on 0	7:19
22 bit" in bold? 0	7:19
23 A. Yes. 0	7:19
Q. So the bit was part of 0	7:19
25 the project? 0	7:19
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1	A. Yes.	07:20
2	Q. And at that point, in February 2020, was	07:20
3	anyone else besides you working on the	07:20
4	bit?	07:20
5	MR. ANSORGE: Objection. Vague.	07:20
6	THE WITNESS: I only know that I am the only	07:20
7	one who has been working on the	07:20
8	bit.	07:20
9	BY MR. FRAWLEY:	07:20
10	Q. And what is ?	07:20
11	A	07:20
12	Q. Do you know why it's called ?	07:20
13	A. I'm not sure.	07:20
14	Q. Do you know if it is referring to a	07:21
15	?	07:21
16	A. I don't know.	07:21
17	Q. And in February 2020, while you were working	07:21
18	on the bit, who at Google was	07:21
19	aware of your work?	07:21
20	MR. ANSORGE: Objection. Vague, and	07:21
21	foundation.	07:21
22	THE WITNESS: Can you be more specific about	07:21
23	which work you're talking about?	07:21
24	BY MR. FRAWLEY:	07:21
25	Q. The work on the bit	07:21
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1	that is being referenced in this document.	07:21
2	And my question is: Who else knew that you	07:21
3	were working on that?	07:21
4	MR. ANSORGE: Same objection.	07:21
5	THE WITNESS: Do you mean who else in Google?	07:22
6	MR. FRAWLEY: Yes.	07:22
7	THE WITNESS: And there are a few people	07:22
8	who knew that I was working on this, but I don't	07:22
9	remember exactly how many or who are they.	07:22
10	BY MR. FRAWLEY:	
11	Q. Off the top of your head, can you think of	07:22
12	anybody?	07:22
13	A. Bert and Chris for sure.	07:22
14	Q. Okay. I'm going to introduce another exhibit.	07:23
15	(Plaintiffs' Exhibit 2 was	07:23
16	marked for identification.)	07:23
17	BY MR. FRAWLEY:	07:23
18	Q. Okay. I've introduced Exhibit 2.	07:23
19	Please let me know when you have Exhibit 2 in	07:23
20	front of you.	07:23
21	And I apologize but the stamp says "Exhibit 1"	07:23
22	again. We'll fix that later. Let's just call this	07:23
23	Exhibit 2.	07:24
24	MR. ANSORGE: So it's Exhibit 1, Tab D that	07:24
25	we're looking at now?	07:24
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1	MR. FRAWLEY: This would be Tab 3.	07:24
2	MR. ANSORGE: Tab 3. Okay. Got it.	07:24
3	MR. FRAWLEY: Yeah. Sorry.	07:24
4	MR. ANSORGE: Got it.	07:24
5	MR. FRAWLEY: The stamp Is the most fun part	07:24
6	to me and I always mess it up. Okay. Sorry.	07:24
7	THE WITNESS: Yes. I'm looking at it.	07:24
8	BY MR. FRAWLEY:	07:24
9	Q. Okay. So just so we're all on the same page,	07:24
10	and I apologize, you're looking at the document that's a	07:24
11	September 17th, 2020 e-mail from Bert Leung; correct?	07:24
12	A. Yes.	07:24
13	Q. Okay. Thank you. And I apologize.	07:24
14	Can you look at the second page?	07:24
15	MR. ANSORGE: And, Ms. Liu, you're well within	07:24
16	your rights to familiarize yourself with the whole	07:24
17	document.	07:24
18	THE WITNESS: Okay.	07:24
19	Yeah. I'm looking at the second page.	07:25
20	BY MR. FRAWLEY:	07:25
21	Q. Okay. Do you see the e-mail about a third of	07:25
22	the way down, there is a July 13, 2020 e-mail at	07:25
23	8:44 a.m. from Chris Liao?	07:25
24	A. Yes.	07:25
25	Q. And do you see where Chris Liao wrote "The	07:25
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1	bit itself is already inferred"?	07:25
2	A. Mm-hm.	07:25
3	Q. So the that's the same	07:25
4	thing as the process of the bit that we were	07:25
5	talking about from the prior document; correct?	07:25
6	A. I'm not sure if Chris meant that.	07:25
7	Q. If you know, were there any other bits about	07:25
8	incognito that he might have been referring to instead?	07:26
9	MR. ANSORGE: Objection. Form and foundation.	07:26
10	THE WITNESS: I don't know other bits for	07:26
11	incognito.	07:26
12	BY MR. FRAWLEY:	07:26
13	Q. And then do you see just above where he wrote	07:26
14	"We should probably rename that to and	07:26
15	link to the documentation"?	07:26
16	A. Yes.	07:26
17	Q. So it sounds like from this and correct me	07:26
18	if I'm wrong the name started as,	07:26
19	then it changed to, and now Chris Liao was	07:26
20	saying "let's change it back to ""?" "?"	07:26
21	Is that right?	07:26
22	MR. ANSORGE: Objection. Form and foundation.	07:26
23	THE WITNESS: What I can read from this e-mail	07:27
24	is that it changed from to to .	07:27
25	///	
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1	BY MR. FRAWLEY:	07:27
2	Q. And before this, did it ever change from	07:27
3	to ?	07:27
4	MR. ANSORGE: Objection. Foundation.	07:27
5	THE WITNESS: Sorry. The light is	07:27
6	MR. FRAWLEY: It's okay.	07:27
7	THE WITNESS: I don't know. If it's a	07:27
8	before.	07:27
9	BY MR. FRAWLEY:	07:27
10	Q. And right now does Chris Liao have any	07:27
11	responsibility for the bit?	07:28
12	MR. ANSORGE: Objection. Foundation.	07:28
13	THE WITNESS: I don't know if he has.	07:28
14	BY MR. FRAWLEY:	07:28
15	Q. When was the last time you talked to	07:28
16	Chris Liao about the bit?	07:28
17	A. I don't remember.	07:28
18	Q. Do you think it was more than six months ago	07:28
19	or less?	07:28
20	A. I don't remember.	07:28
21	Q. And at this time, in July 2020, if you know,	07:29
22	were any lawyers involved in the bit?	07:29
23	MR. ANSORGE: Objection. Vague and form.	07:29
24	THE WITNESS: Well, first of all, I want to	07:29
25	clarify the bit should you are	07:29
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1	talking about should be the Boolean	07:29
2	field.	07:29
3	And about the lawyers, I don't know.	07:29
4	BY MR. FRAWLEY:	07:29
5	Q. And thank you for that clarification.	07:29
6	Can you explain to me what is a Boolean field?	07:29
7	A. A Boolean field is a type of data container	07:30
8	that only contains value that is either true or false.	07:30
9	Q. Okay. I'm going to introduce another exhibit.	07:30
10	(Plaintiffs' Exhibit 3 was	07:30
11	marked for identification.)	07:30
12	BY MR. FRAWLEY:	07:31
13	Q. Okay. Today is not my day with marking	07:31
14	exhibits. We'll call this Exhibit 3, even though	07:31
15	there's no stamp.	07:31
16	Let me know when you have this document in	07:31
17	front of you, Ms. Liu.	07:31
18	A. Is it the Exhibit 3, Tab 1?	07:31
19	Q. That's correct. I'm sorry that I'm making it	07:31
20	confusing with the different numbers.	07:31
21	A. That's okay.	07:31
22	Q. My question here is about the fourth page of	07:31
23	this document.	07:31
24	MR. ANSORGE: Ms. Liu, you're well within your	07:31
25	rights to familiarize yourself with the document.	07:31
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1	THE WITNESS: Okay. Thank you.	07:31
2	Would you please tell me the Bates number for	07:32
3	the page?	07:32
4	BY MR. FRAWLEY:	
5	Q. Yes.	07:32
6	The Bates ending in 280.	07:32
7	A. Okay. Yeah, I'm looking at this.	07:32
8	Q. Okay. Do you see the bottom e-mail where you	07:32
9	wrote:	07:32
10	"Hi all. Ads identity team is currently working on	07:32
11	a project to	07:32
12	"?	07:32
13	A. Yes.	07:32
14	Q. And you are a member of the ads identity team;	07:32
15	correct?	07:32
16	A. Yes.	07:32
17	Q. And who else was a member of the ads identity	07:32
18	team at this point in October 2020?	07:32
19	A. Bert and Chris.	07:32
20	Q. So you were working with them on this project	07:32
21	to ?	07:32
22	MR. ANSORGE: Objection. Form, and vague.	07:33
23	THE WITNESS: I was working with Bert and	07:33
24	Chris on this	07:33
25		07:33
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1		08:22
2	?	08:22
3	A. Yes.	08:22
4	Q. And that's referring to the rate according to	08:22
5	your dashboard; correct?	08:22
6	A. Yes.	08:22
7	Q. So on January 27th, your dashboard said that	08:22
8	the incognito rate is around or percent.	08:22
9	But now on February 3rd, the dashboard is	08:22
10	saying the incognito rate is around percent; fair?	08:22
11	A. Yes.	08:23
12	MR. ANSORGE: Objection. Compound.	08:23
13	BY MR. FRAWLEY:	08:23
14	Q. And why was that good news?	08:23
15	A. Because it's closer to the number Bert told	08:23
16	me.	08:23
17	Q. What did Bert say about this good news?	08:23
18	A. I don't remember exactly.	08:23
19	Q. And what, if anything, did you do well	08:23
20	yeah. Sorry. Let me restart.	08:24
21	What, if anything, did you do between	08:24
22	January 27th and February 3rd?	08:24
23	MR. ANSORGE: Objection. Vague.	08:24
24	THE WITNESS: Could you be more specific?	08:24
25	///	
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1	BY MR. FRAWLEY:	08:24
2	Q. Right.	08:24
3	What, if anything, did you change that	08:24
4	resulted in the rate from your dashboard going from	08:24
5	around \blacksquare to \blacksquare percent to then going down to around	08:24
6	percent?	08:24
7	A. I didn't do anything.	08:24
8	Q. So then how can you explain the rate going	08:25
9	from to percent to around percent?	08:25
10	A. It's because on January 27th, the change that	08:25
11	makes the incognito rate from \blacksquare or \blacksquare percent to	08:25
12	percent has hasn't rolled out yet.	08:25
13	Q. Did you say "the change"?	08:25
14	A. Yes.	08:25
15	Q. What do you mean what's the change?	08:25
16	A.	08:25
17		08:26
18	Q. When was that change rolled out?	08:26
19	A. I think it's between January 27th and	08:26
20	February 3rd.	08:26
21	Q. Okay. Let me introduce a new exhibit.	08:26
22	(Plaintiffs' Exhibit 8 was	08:26
23	marked for identification.)	08:26
24	BY MR. FRAWLEY:	08:27
25	Q. Okay. I've introduced Exhibit 8.	08:27
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1	Please let me know when you have Exhibit 8 in	08:27
2	front of you.	08:27
3	A. Yeah. I'm looking at Exhibit 8.	08:27
4	Q. Okay. Exhibit 8 is a list of logs; correct?	08:27
5	A. Exhibit 8 is an email that has a list of logs.	08:27
6	Q. And is this the list of logs that has the	08:27
7	field?	08:28
8	A. Looks like, yes.	08:28
9	Q. Now, if you know, when was the	08:28
10	field added to these logs?	08:28
11	MR. ANSORGE: Objection. Compound.	08:28
12	THE WITNESS: I'm not sure of the exact date.	08:28
13	BY MR. FRAWLEY:	08:28
14	Q. Was it the same date for every single log or	08:28
15	was it added to different logs at different times?	08:28
16	A. It was added at one time.	08:29
17	Q. Sorry. So for each log it was added at the	08:29
18	exact same time; right? Is that what you mean?	08:29
19	A. Yes.	08:29
20	Q. And you explained earlier that a Boolean field	08:29
21	means that it can only be ; correct?	08:29
22	A. Yes.	08:29
23	Q. So right now, today, could you sorry. Let	08:29
24	me restart.	08:29
25	Right now, today, could someone at Google run	08:29
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1	a search for every single log entry where	08:29
2	shows up as ?	08:29
3	MR. ANSORGE: Objection. Foundation. And	08:30
4	calls for speculation. And form.	08:30
5	THE WITNESS: I think that only someone with	08:30
6	certain permission to the logs to access the logs	08:30
7	may query the log to see this Chrome_incognito	08:30
8	Boolean field.	08:30
9	BY MR. FRAWLEY:	08:30
10	Q. And that person could run a query for	08:30
11	equals ?	08:30
12	A. Yes.	08:30
13	Q. Now, can you just explain to me at a high	08:31
14	level the logic that goes into making the choice of	08:31
15	whether something should be labeled true for	08:31
16	?	08:31
17	MR. ANSORGE: Objection. Form and vague.	08:31
18	THE WITNESS: The high level logic, you mean	08:31
19	like could you specify what's high level logic?	08:31
20	BY MR. FRAWLEY:	08:31
21	Q. Sure.	08:31
22	Like what kind of information is the field	08:31
23	using or looking at to decide whether it's going show up	08:31
24	as true?	08:31
25	A. I will be so the input for determining this	08:32
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1	Boolean field will include the absence	08:32
2	of X-Client-Data header and also whether the request is	08:32
3	from WebView and also if the request is from OS or	08:32
4	macOS.	08:32
5	Q. And the information that you just listed, is	08:32
6	all of that information stuff that's already part of the	08:33
7	same list of logs?	08:33
8	MR. ANSORGE: Objection. Vague.	08:33
9	THE WITNESS: Do you mean are those input I	08:33
10	talk about, are they in the in this list of logs, or	08:33
11	do you mean	08:33
12	MR. FRAWLEY: Yes. That's exactly what I	08:33
13	mean.	08:33
14	THE WITNESS: Okay. So my input my input	08:33
15	for like determining the Boolean field	08:33
16	will not are not logged in this log.	08:34
17	MR. FRAWLEY: Okay. Could we do like a	08:34
18	five-minute break, Ms. Liu?	08:34
19	THE WITNESS: Okay.	08:34
20	MR. FRAWLEY: Okay, Joey?	08:34
21	MR. ANSORGE: Yeah. Fine by me. Should we	08:34
22	reconvene at 20 to the hour?	08:34
23	MR. FRAWLEY: Yes.	08:34
24	MR. ANSORGE: Does that work?	08:34
25	MR. FRAWLEY: Perfect.	08:34
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